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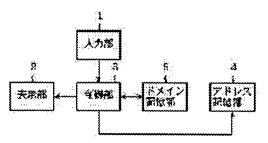
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(54) PORTABLE TELEPHONE SET

(57)Abstract:

PROBLEM TO BE SOLVED: To facilitate the input/editing operation of an E-mail address.

SOLUTION: When one part of the E-mail address is inputted to an input part 1, a control part 3 prepares the E-mail address by reading a domain part corresponding to one part of the E-mail address out of a domain storage part 5, displaying it on a display part 2 and complementing one part of the E-mail address inputted by the control part 3 with a domain part selected by a user. Besides, the control part 3 preserves the prepared E-mail address in an address storage part and preserves the domain part of the prepared E-mail address in the domain storage part 5.



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DETAILED DESCRIPTION

[Detailed Description of the Invention] [0001]

[Field of the Invention] This invention relates to the portable telephone which inputs the E-mail address at the time of memory dial registration and E-mail transmission. [0002]

[Description of the Prior Art] Although inputted the alphabetic character of one character, in almost all cases, the bottom of the key press of multiple times is required for the input of the alphabetic character in a portable telephone, in order to use about ten keys. Although there is much E-mail address which is the same domain also when a user inputs the E-mail address, it is inputted like the above-mentioned input approach by the bottom of the key press of multiple times.

[0003] Generally, in order to simplify the input of the E-mail address, the approach of choosing ".co", ".jp", etc. simply and inputting them is used. Although the count of the bottom of a key press decreases by this approach, there is no change in the same procedure by the bottom of the key press of multiple times being required although the E-mail address of the same domain is inputted.

[0004]

[Problem(s) to be Solved by the Invention] Since the conventional portable telephone was constituted as mentioned above, although the E-mail address of the same domain is inputted, the procedure by the bottom of the key press of multiple times was required, and the technical problem that actuation was troublesome occurred.

[0005] Moreover, although the domain of the E-mail address is edited, even if the same domain as the domain after edit was located to the existing E-mail address, the technical problem that it could not use occurred.

[0006] Furthermore, when a domain was changed, the technical problem that edit of all the E-mail addresses belonging to the domain was needed occurred.

[0007] It was made in order that this invention might solve the above technical problems, and the alter operation and editing operation of the E-mail address aim at obtaining an easy portable telephone.

[8000]

[Means for Solving the Problem] The input section into which the portable telephone concerning this invention inputs a part of account part of the E-mail address, and domain part, The domain storage section which saves the domain part of the above-mentioned E-mail address, The display which displays the domain part memorized by the above-mentioned domain storage section, The domain part corresponding to a part of domain part of the E-mail address inputted from the above-mentioned input section The domain part which the user chose through the above-mentioned input section from the domain parts which read from the above-mentioned domain storage section, were made to display on the above-mentioned display, and were displayed on the above-mentioned display It has the control section which complements into the account part of the above-mentioned E-mail address, and creates the E-mail address.

[0009] The input section into which the portable telephone concerning this invention inputs the account part of the E-mail address, The domain storage section which saves the domain part of the above-mentioned E-mail address, With the domain access key which

accesses the domain part saved in the above-mentioned domain storage section, the display which displays the above-mentioned E-mail address, and the directions from the above-mentioned domain access key The domain part saved in the domain storage section is complemented into the account part of the E-mail address inputted from the above-mentioned input section, and it is equipped with the control section on which the above-mentioned display is made to display the E-mail address which created and created the E-mail address.

[0010] The input section into which the portable telephone concerning this invention inputs the account part of the E-mail address, The domain storage section which saves the domain part of the above-mentioned E-mail address, With the domain access key which accesses the domain part saved in the above-mentioned domain storage section, the display which displays the domain part memorized by the above-mentioned domain storage section, and the directions from the above-mentioned domain access key The domain part saved in the above-mentioned domain storage section is displayed on the above-mentioned display. It has the control section which complements the domain part which it was displayed on the above-mentioned display by the account part of the E-mail address inputted from the above-mentioned input section, and the user chose as it, and creates the E-mail address.

[0011] It has the address storage section which saves the E-mail address, and the portable telephone concerning this invention saves the created E-mail address in the above-mentioned address storage section, and a control section extracts the domain part of the saved E-mail address, and saves it in the domain storage section.

[0012] A control section extracts the domain part of the saved E-mail address, without overlapping, and saves the portable telephone concerning this invention in the domain storage section.

[0013] The input section into which the portable telephone concerning this invention inputs the account part of the E-mail address, The address storage section which saves the above-mentioned E-mail address, and the temporary storage which stores the domain part extracted from the above-mentioned address storage section, The account part of the E-mail address is inputted from the display which displays the domain part stored in the storage region at the time of top Norikazu, and the above-mentioned input section. Extract a domain part from the E-mail address saved in the above-mentioned address storage section, and it stores in a storage region at the time of top Norikazu. The domain part stored in the storage region at the time of top Norikazu is displayed on the above-mentioned display. It has the control section which complements the domain part which the user chose as the account part of the E-mail address inputted from the above-mentioned input section from the domain parts currently displayed on the above-mentioned display, and creates the E-mail address.

[0014] The portable telephone concerning this invention saves the E-mail address which the control section created in the address storage section.

[0015] The input section into which the portable telephone concerning this invention inputs edit directions of the E-mail address, The address storage section which saves the above-mentioned E-mail address, and the domain storage section which saves the domain part of the E-mail address saved in the above-mentioned address storage section, With the edit directions inputted as the display which displays the domain part saved in the above-mentioned domain storage section, and the temporary storage which stores the domain

part for edit from the above-mentioned input section The domain part saved in the above-mentioned domain storage section is displayed on the above-mentioned display. The domain part for [which the user chose through the above-mentioned input section] edit is stored in a storage region at the time of top Norikazu. The target domain part is edited with the edit directions from a user inputted from the above-mentioned input section. Search the E-mail address corresponding to the domain part stored in the storage region at the time of top Norikazu from the above-mentioned address storage section, and by permuting the domain part of the searched E-mail address by the edited domain part It has the control section which edits the E-mail address.

[0016] The input section into which the portable telephone concerning this invention inputs edit directions of the E-mail address, The address storage section which saves the above-mentioned E-mail address, and the display which displays the domain part of the E-mail address saved in the above-mentioned address storage section, With the edit directions inputted as the temporary storage which stores the domain part for edit from the above-mentioned input section The domain part of the E-mail address saved in the above-mentioned address storage section is displayed on the above-mentioned display. The domain part for [which the user chose through the above-mentioned input section] edit is stored in a storage region at the time of top Norikazu. The target domain part is edited with the edit directions from a user inputted from the above-mentioned input section. Search the E-mail address corresponding to the domain part stored in the storage region at the time of top Norikazu from the above-mentioned address storage section, and by permuting the domain part of the searched E-mail address by the edited domain part It has the control section which edits the E-mail address.

[Embodiment of the Invention] Hereafter, one gestalt of implementation of this invention is explained.

Gestalt 1. drawing 1 of operation is the block diagram showing the configuration of the portable telephone by the gestalt 1 of implementation of this invention, and the address storage section which saves the E-mail address, and 5 are the domain storage section which saves in the domain part in the E-mail address in drawing in the input section into which 1 inputs the E-mail address, the display which displays the E-mail address which 2 inputted, the control section to which 3 performs the processing about the E-mail address, and 4.

[0018] Next, actuation is explained. <u>Drawing 2</u> is drawing explaining how to input and save the E-mail address first, and they are the name with which 11 was inputted into the input section 1, the E-mail address with which 12 was inputted into the input section 1, the name list with which 41 is memorized by the address storage section 4, the address list with which 42 is memorized by the address storage section 4, and the domain list with which 51 is memorized by the domain storage section 5 in <u>drawing 2</u>.

[0019] <u>Drawing 3</u> is a flow chart which shows the processing which inputs and saves the E-mail address first. In a step ST 1, if a user inputs a name 11 and the E-mail address 12 from the input section 1, a control section 3 will display the name 11 and the E-mail address 12 which were inputted on a display 2, and a user will check it. In a step ST 2, a control section 3 saves the name 11 and the E-mail address 12 which were inputted as the name list 41 and an address list 42 in the address storage section 4. In a step ST 3, a control section 3 extracts the domain part of the saved E-mail address 12, and saves it as

a domain list 51 in the domain storage section 5.

[0020] <u>Drawing 4</u> is drawing explaining how to input a part of address and create the address, and a part of E-mail address which 13 inputs, the domain list with which 51 is saved in the domain storage section 5, and 31 are the addresses created by the automatic complement in drawing.

[0021] <u>Drawing 5</u> is a flow chart which shows the processing which inputs a part of E-mail address, and creates and saves the E-mail address. In a step ST 11, a user inputs a part of E-mail address 13 which consists of one character next to the account part of the E-mail address, "@" @, and "@" @ from the input section 1. Although the name corresponding to a part of E-mail address is also inputted here, it omits in subsequent explanation.

[0022] In a step ST 12, a control section 3 reads the domain list 15 corresponding to one character next to inputted "@" @ from the domain storage section 5, and displays it. In a step ST 13, the domain part to which a user corresponds through the input section 1 is chosen from the domain lists 15 currently displayed.

[0023] In a step ST 14, a control section 3 complements the account part inputted at a step ST 11, and the domain part chosen as "@" @, and creates the E-mail address 31. In a step ST 15, a control section 3 saves the created E-mail address 31 in the address storage section 4, and in a step ST 16, a control section 3 extracts the domain part of the saved E-mail address, and it saves it in the domain storage section 5.

[0024] As mentioned above, according to the gestalt 1 of this operation, a part of E-mail address is inputted. The domain list memorized by the domain storage section 5 is read from a part of domain part after inputted "@" @. Since the E-mail address is created by complementing automatically the domain part which chose the domain part of relevance and chose it from the domain list as a part of inputted E-mail address The effectiveness that it can simplify and alter operation of the E-mail address can be made easy is acquired.

[0025] Gestalt 2. drawing 6 of operation is the block diagram showing the configuration of the portable telephone by the gestalt 2 of implementation of this invention, in drawing, 6 is a domain access key which accesses the domain part with which the input section 1 is equipped, and which is saved in the domain storage section 5, and other configurations are the same as the configuration shown in drawing 1 of the gestalt 1 of operation.
[0026] Next, actuation is explained. Drawing 7 is drawing explaining how to input a part of E-mail address, and create the E-mail address, and a part of E-mail address which 14 inputs, the E-mail address with which sequential creation of 32, 33, and 34 was carried out by the automatic complement, and 51 are domain lists saved in the domain storage section 5 in drawing.

[0027] <u>Drawing 8</u> is a flow chart which shows the processing which inputs a part of E-mail address, and creates and saves the E-mail address. In a step ST 21, a user inputs a part of E-mail address 14 which consists of an account part of the E-mail address, and "@" @ from the input section 1, and a user does the depression of the domain access key 6 of the input section 1 in a step ST 22.

[0028] In a step ST 23, a control section 3 compléments the domain part read from the domain storage section 5 to a part of E-mail address 14 which was beginning to read one domain part and was inputted, and creates the E-mail address 32, and a control section 3 displays the created E-mail address 32 on a display 2 in a step ST 24.

[0029] In a step ST 25, a user checks whether it is the E-mail address with which the E-mail address 32 displayed on the display 2 corresponds, if he is not the corresponding E-mail address, will repeat ST24 from the above-mentioned step ST 22, and will create and display the E-mail address 33. Thus, a user does the depression of the domain access key 6 one by one until the corresponding E-mail address is created.

[0030] If it checks that it is the E-mail address with which the E-mail address 34 created at a step ST 25 corresponds, in a step ST 26, a control section 3 saves the corresponding E-mail address 34 in the address storage section 4, and in a step ST 27, a control section 3 extracts the domain part of the saved E-mail address 34, and it saves it in the domain storage section 5.

[0031] As mentioned above, in order according to the gestalt 2 of this operation to change the domain which carries out an automatic complement one by one after "@" @ and to create the E-mail address by carrying out the depression of the domain access key 6 one by one, the effectiveness that it can simplify and alter operation of the E-mail address can be made easy is acquired.

[0032] gestalt 3. of operation -- the configuration of the portable telephone by the gestalt 3 of this operation is the same as the configuration shown in <u>drawing 6</u> of the gestalt 2 of operation.

[0033] Next, actuation is explained. <u>Drawing 9</u> is drawing explaining how to input a part of E-mail address, and create the address, and a part of E-mail address which 14 inputs, the domain list which displayed the domain list 51 with which 21 is saved in the domain storage section 5 by the display 2, and 35 are the E-mail addresses created by the automatic complement in drawing.

[0034] Drawing 10 is a flow chart which shows the processing which inputs a part of E-mail address, and creates and saves the E-mail address. In a step ST 31, if a user inputs a part of E-mail address 14 which consists of an account part of the E-mail address, and "@" @ from the input section 1 and a user does the depression of the domain access key 6 of the input section 1 in a step ST 32, in a step ST 33, a control section 3 will read the domain list 51 from the domain storage section 5, and will display it on a display 2 as a domain list 21.

[0035] In a step ST 34, if the domain part which corresponds through the input section 1 is chosen from the domain lists 21 with which the user was displayed on the display 2, in a step ST 35, a control section 3 will complement the domain part chosen as a part of inputted E-mail address 14, and will create the E-mail address 35.

[0036] In a step ST 36, a control section 3 saves the created E-mail address 35 in the address storage section 4, and in a step ST 37, a control section 3 extracts the domain part of the saved E-mail address 35, and it saves it in the domain storage section 5.

[0037] As mentioned above, according to the gestalt 3 of this operation, the domain part which corresponds easily even if the number of the saved domain parts increases, since a user can choose the domain part which corresponds from the domain list 13 can be chosen, the alter operation of the E-mail address is simplified, and the effectiveness that it can be made easy is acquired.

[0038] gestalt 4. of operation -- the configurations of the portable telephone by the gestalt 4 of this operation may be any of a configuration of being shown in $\frac{1}{2}$ of drawing $\frac{1}{2}$ of the gestalt 1 of operation, the gestalt 2 of operation, and the gestalt 3 of operation. [0039] Next, actuation is explained. $\frac{1}{2}$ Drawing $\frac{1}{2}$ is drawing explaining how to input the

E-mail address and create a domain list, and it is the name with which 11 was inputted into the input section 1, the E-mail address with which 12 was inputted into the input section 1, the name list with which 41 is memorized by the address storage section 4, and the address list with which 42 is memorized by the address storage section 4, and it is the same as that of what is shown in <u>drawing 2</u> in drawing. Moreover, in <u>drawing 11</u>, 52 is a domain list memorized by the domain storage section 5.

[0040] Since a domain part is extracted and it saves in the domain storage section 5 about all the E-mail addresses saved in the address storage section 4 as the gestalt [gestalt / 1 / of the above-mentioned implementation] 3 of operation is shown in the step ST 16 in drawing 5 of the gestalt 1 of operation, the step ST 27 in drawing 8 of the gestalt 2 of operation, and the step ST 37 in drawing 10 of the gestalt 3 of operation, the overlapping domain part exists.

[0041] However, with the gestalt 4 of this operation, as shown in <u>drawing 11</u>, when a control section 3 extracts a domain part from the address storage section 4, the overlapping domain is deleted and it saves in the domain storage section 5.

[0042] As mentioned above, since the domain part saved in the domain storage section 5 does not overlap according to the gestalt 4 of this operation, selection of a domain part becomes easier and the effectiveness that it can simplify and alter operation of the E-mail address can be made easy is acquired.

[0043] Gestalt 5. drawing 12 of operation is the block diagram showing the configuration of the portable telephone by the gestalt 5 of implementation of this invention, 7 is the temporary storage which stores a domain list in drawing, and other configurations are the same as the configuration which omitted the domain storage section 5 from drawing 1 of the gestalt 1 of operation.

[0044] Next, actuation is explained. <u>Drawing 13</u> is drawing explaining signs that a domain list is extracted from the address storage section 4, and the name list with which 41 is saved in the address storage section 4, the address list with which 42 is saved in the address storage section 4, and 71 are domain lists stored in temporary storage 7 in drawing.

[0045] <u>Drawing 14</u> is a flow chart which shows the processing which inputs a part of E-mail address, and creates and saves the E-mail address. In a step ST 41, if a user inputs a part of E-mail address which consists of an account part of the E-mail address, and "@" @ from the input section 1, in a step ST 42, a control section 3 extracts each domain part from the address list 42 saved in the address storage section 4, and stores the domain list 71 in temporary storage 7.

[0046] In a step ST 43, a control section 3 displays the domain list 71 stored in temporary storage 7 by the display 2, and sets it to a step ST 44. If a user chooses the domain part which corresponds through the input section 1 from the domain lists 71 displayed on the display 2, it will set to a step ST 45. A control section 3 The domain part chosen as a part of inputted E-mail address is complemented, and the E-mail address is created. In a step ST 46, a control section 3 saves the created E-mail address in the address storage section 4.

[0047] As mentioned above, while according to the gestalt 5 of this operation being able to simplify and being able to make alter operation of the E-mail address easy, by extracting the domain list 71 from the address list 42, the domain storage section 5 becomes unnecessary and the effectiveness that memory can be saved is acquired.

[0048] Gestalt 6. drawing 15 of operation is the block diagram showing the configuration of the portable telephone by the gestalt 6 of implementation of this invention, 7 is the temporary storage which stores the domain part for edit in drawing, and other configurations are the same as that of drawing 1 R> 1 of the gestalt 1 of operation. [0049] Next, actuation is explained. Drawing 16 is drawing explaining edit of the E-mail address, and is set to drawing. The domain list with which 21 was displayed on the display 2, the domain list after the edit as which 22 was displayed on the display 2, The name list with which 41 is saved in the address storage section 4, the address list with which 42 is saved in the address storage section 4, The address list after the edit in which 43 is saved in the address storage section 4, The domain list with which 51 is saved in the domain storage section 5, the domain list after the edit in which 53 is saved in the domain storage section 5, and 72 are the domain parts for [which is stored in temporary storage 7] edit.

[0050] <u>Drawing 17</u> is a flow chart which shows edit processing of the E-mail address. In a step ST 51, with the edit directions from the user through the input section 1, a control section 3 reads the domain list 51 from the domain storage section 5, and displays it on a display 2 as a domain list 21, and a control section 3 stores in temporary storage 7 the domain part for [which the user chose through the input section 1] edit as a domain part 72 in a step ST 52.

[0051] In a step ST 53, a user edits the target domain part through the input section 1, and changes into the domain list 22 the domain list 21 currently displayed on the display 2. In a step ST 54, a control section 3 searches the E-mail address corresponding to the domain part stored in temporary storage 7 from the address storage section 4, and a control section 3 permutes the domain part of the searched E-mail address by the domain part edited at the above-mentioned step ST 53 in a step ST 55.

[0052] In a step ST 56, a control section 3 saves the E-mail address edited by permuting a domain part in the address storage section 4 as an address list 43, and a control section 3 saves the edited domain part in the domain storage section 5 as a domain list 53 in a step ST 57.

[0053] Although all the E-mail addresses that hold the domain part for edit are edited with the gestalt of this operation, the E-mail address which a user edits may be chosen among the above-mentioned steps ST54 and ST55.

[0054] As mentioned above, since the E-mail address which held the same domain part saved in the address storage section 4 can be edited by editing the domain part saved in the domain storage section 5 according to the gestalt 6 of this operation, the effectiveness that editing operation becomes easy is acquired.

[0055] gestalt 7. of operation -- the configuration of the portable telephone by the gestalt of this operation is the same as that of what deleted the domain storage section 5 from drawing 15 of the gestalt 6 of operation.

[0056] Next, ***** explanation of operation is given. <u>Drawing 18</u> is drawing explaining edit of the E-mail address, and is the same as that of what deleted the domain lists 51 and 53 of the domain storage section 5 from <u>drawing 16</u> of the gestalt 6 of operation.

[0057] <u>Drawing 19</u> is a flow chart which shows edit processing of the E-mail address. In a step ST 61, with the edit directions from the user through the input section 1, a control section 3 extracts each domain part from the address list 42 of the address storage section 4 without duplication, and displays it on a display 2 as a domain list 21, and a control

section 3 stores in temporary storage 7 the domain part for [which the user chose through the input section 1] edit as a domain part 72 in a step ST 62.

[0058] In a step ST 63, a user edits the target domain part through the input section 1, and changes into the domain list 22 the domain list 21 currently displayed on the display 2. In a step ST 64, a control section 3 searches the E-mail address corresponding to the domain part stored in temporary storage 7 from the address storage section 4, and a control section 3 permutes the domain part of the searched E-mail address by the domain part edited at the above-mentioned step ST 63 in a step ST 65.

[0059] In a step ST 66, a control section 3 saves the E-mail address edited by permuting a domain part in the address storage section 4 as an address list 43.

[0060] Although all the E-mail addresses that hold the domain part for edit are edited with the gestalt of this operation, the E-mail address which a user edits may be chosen among the above-mentioned steps ST64 and ST65.

[0061] By as mentioned above, the thing for which according to the gestalt 7 of this operation a domain list is extracted without duplication and the target domain part is edited from the address list 42 saved in the address storage section 4 Since the E-mail address which holds the same domain part saved in the address storage section 4 can be edited, while editing operation becomes easy By extracting a domain list at the time of edit, the domain storage section 5 becomes unnecessary and the effectiveness that memory can be saved is acquired.

[0062]

[Effect of the Invention] According to this invention, a control section as mentioned above, the domain part corresponding to a part of domain part of the E-mail address inputted from the input section The domain part which the user chose through the input section from the domain parts which read from the domain storage section, were made to display on a display, and were displayed on the display By complementing into the account part of the E-mail address, and creating the E-mail address, it is effective in the ability to simplify and make alter operation of the E-mail address easy.

[0063] It is effective in the ability for a control section to be simplified and make alter operation of the E-mail address easy with the directions from a domain access key by complementing the domain part saved in the domain storage section into the account part of the inputted E-mail address, and making a display display the E-mail address which created and created the E-mail address on it, according to this invention.

[0064] According to this invention, a control section with the directions from a domain access key The domain part saved in the domain storage section is displayed on a display. By complementing the domain part which it was displayed on the display by the account part of the E-mail address inputted from the input section, and the user chose as it, and creating the E-mail address Since a user can choose the corresponding domain part, even if number of the saved domain parts increases, he can choose the domain part which corresponds easily, and is effective in the ability to simplify and make alter operation of the E-mail address easy.

[0065] According to this invention, when a control section extracts the domain part of the saved E-mail address, without overlapping and saves it in the domain storage section, selection of a domain part becomes easier and it is effective in the ability to simplify and make alter operation of the E-mail address easy.

[0066] According to this invention, a control section inputs the account part of the E-mail

address from the input section. Extract a domain part from the E-mail address saved in the address storage section, and it stores in temporary storage. Into the account part of the E-mail address which was made to display the domain part stored in temporary storage on a display, and was inputted from the input section While being able to simplify and being able to make alter operation of the E-mail address easy by complementing the domain part which the user chose from the domain parts currently displayed on the display, and creating the E-mail address It is effective in the ability for the domain storage section to become unnecessary and save memory.

[0067] According to this invention, a control section with the edit directions inputted from the input section The domain part saved in the domain storage section is displayed on a display. The domain part for [which the user chose through the input section] edit is stored in temporary storage. The target domain part is edited with the edit directions from a user inputted from the input section. Search the E-mail address corresponding to the domain part stored in temporary storage from the address storage section, and the domain part of the searched E-mail address is permuted by the edited domain part. Since the E-mail address which held the same domain part saved in the address storage section by editing the E-mail address can be edited, it is effective in editing operation becoming easy.

[0068] According to this invention, a control section with the edit directions inputted from the input section The domain part of the E-mail address saved in the address storage section is displayed on a display. The domain part for [which the user chose through the input section] edit is stored in temporary storage. The target domain part is edited with the edit directions from a user inputted from the input section. Search the E-mail address corresponding to the domain part stored in temporary storage from the address storage section, and the domain part of the searched E-mail address is permuted by the edited domain part. While editing operation becomes easy by editing the E-mail address, it is effective in the ability for the domain storage section to become unnecessary and save memory.